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L# ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:317775 CAPLUS

DN 126:295282

TI Fire-fighting aqueous emulsions consisting of water-insoluble fluorinated copolymers, \*\*\*surfactants\*\*\*, fluorinated \*\*\*surfactants\*\*\*, and water-miscible solvents

IN Garcia, Gilbert; Collette, Christian; Morillon, Elisabeth

PA Elf Atochem S.A., Fr.

SO Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

PATENT NO. KIND DATE APPLICATION NO. DATE

PI EP 765676 A1 19970402 EP 1996-401822 19960826

R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE

FR 2739295 A1 19970404 FR 1995-11385 19950928

JP 09124884 A2 19970513 JP 1996-244969 19960917

AU 9665863 A1 19970410 AU 1996-65863 19960926

CA 2186773 AA 19970329 CA 1996-2186773 19960927

PRAI FR 1995-11385 A 19950928

AB Fire-fighting emulsions consist of aq. dispersions contg.: (1) 0.5-10 wt.% of a water-insol. fluorinated copolymer prep'd. from a monomer contg. a perfluorinated chain, a monomer contg. an ionic or ionizable chain, and/or a monomer contg. a nonionic chain, (2) 1-20 wt.% of a C5-18-branched or linear alkane \*\*\*surfactant\*\*\*, (3) 0.5-10 wt.% of a fluorinated \*\*\*surfactant\*\*\* which, when present in aq. soln. at 1 g/L concn., gives rise to a surface tension at 20.degree. of 25 mN/m, and (4) 5-50 wt.% of a water-miscible solvent. The fluorinated copolymer is of general formula

-[M1]<sub>x</sub>[M2]<sub>y</sub>[M3]<sub>z</sub>, in which M1 is a C5-20- \*\*\*perfluoroalkyl\*\*\* acrylate or methacrylate; M2 is an acrylic, methacrylic, or vinylic monomer with an ionizable or hydrophilic group; M3 is an acrylic, methacrylic, or vinylic monomer with a nonionic (esp. hydrophobic) group; and x = 50-95, y = 1-25, and z = 0-10 (with an M1-M2 molar ratio of 1-10:1). A no. of \*\*\*surfactants\*\*\* are possible for the formulation, including \*\*\*betaines\*\*\*, N,N-bis(2-carboxyethyl)amines, 2-alkyl(1-hydroxyethyl)imidazolines, quaternary ammonium chlorides, polyoxyalkylene monoethers, trialkylamine oxides, alkylbenzenesulfonic acids, etc.

IC ICM A62D001-00

DT Patent

LA French

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L# ANSWER 101 OF 104 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1972:33810 CAPLUS  
DN 76:33810  
TI

.beta.-[2-[2-( \*\*\*Perfluoroalkyl\*\*\*  
)ethylsulfonylamino]ethyl]dimethylammoniopropi  
onates

IN Bertocchio, Rene; Foulletier, Louis

PA UGINE KUHLMANN

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI DE 2120868	A	19711118	DE 1971-2120868	19710428
DE 2120868	C2	19840517		
FR 2088941	A5	19720107	FR 1970-15836	19700430
FR 2128028	A6	19721020	FR 1971-6914	19710301
FR 2128028	B2	19730511		
PRAI FR 1970-15836		19700430		
FR 1971-6914		19710301		
AB The title compds., CF <sub>3</sub> (CF <sub>2</sub> ) <sub>n</sub> CH <sub>2</sub> CH <sub>2</sub> SO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> N+Me <sub>2</sub> -CH <sub>2</sub> CH <sub>2</sub> CO-2 (I, n=5, 7 or 9), useful as surfactants in e.g. textile industry, were prep'd. by reaction of CF <sub>3</sub> (CF <sub>2</sub> ) <sub>n</sub> CH <sub>2</sub> CH <sub>2</sub> SO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> NMe <sub>2</sub> (II) with .beta.-propiolactone (III). Thus, reaction of 50 g II (n=7) with 6 g III in Me <sub>2</sub> CO for 1 hr gave 49.1 g I (n=7).				
IC C07C; C11D				
DT ***Patent***				
LA German				

L8 ANSWER 7 OF 11 CAPLUS. COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1973:420652 CAPLUS

DOCUMENT NUMBER: 79:20652

TITLE: \*\*\*Surface\*\*\* - \*\*\*active\*\*\* fluorinated alkyl sulfides

INVENTOR(S): Toukan, Sameeh Said; Hauptschein, Murray

PATENT ASSIGNEE(S): Pennwalt Corp.

SOURCE: Ger. Offen., 26 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 2239709	A1	19730222	DE 1972-2239709	19720811
CA 962281	A1	19750204	CA 1972-145564	19720623
GB 1395955	A	19750529	GB 1972-35227	19720727
NL 7210982	A	19730214	NL 1972-10982	19720811
FR 2150116	A5	19730330	FR 1972-29239	19720811
JP 48026714	A2	19730409	JP 1972-80040	19720811
JP 57047187	B4	19821007		

PRIORITY APPLN. INFO.: US 1971-171325 19710812

AB Eleven title compds., i.e. bis[2-[7-(trifluoromethyl)perfluoroctyl]ethyl]trimethylmethanol (I) [ \*\*\*40099-98-7\*\*\* ] and (F<sub>3</sub>C)2CF(CF<sub>2</sub>)<sub>n</sub>CH<sub>2</sub>CH<sub>2</sub>SX [II; n = 4 or 6; X = CH<sub>2</sub>CH(OH)CH<sub>2</sub>OH, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>CH<sub>2</sub>NMe<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>,

4-pyridyl, 2-benzimidazolyl, 2-pyridimyl, o-carboxyphenyl, or 3,5-dichloro-2-pyridyl] and their derivs., e.g. carbamates or chloroacetates, were prep'd. without olefin formation in 33-100% yield by reaction of (F<sub>3</sub>C)2CF(CF<sub>2</sub>)<sub>n</sub>CH<sub>2</sub>CH<sub>2</sub>I (III) with (HSCH<sub>2</sub>)<sub>2</sub>CHOH (IV) and HSR, resp., in the presence of NaOH in a polar solvent, e.g. EtOH. I and II were partly used as \*\*\*surface\*\*\* - \*\*\*active\*\*\* agents and useful as insecticides. Thus, IV was added to NaOH-EtOH, the mixt. heated 5-10 min at ~50.deg., added to III (n = 6) in EtOH, and the mixt. refluxed 1 hr to give 81% I.

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L9 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1974:522705 CAPLUS

DOCUMENT NUMBER: 81:122705

TITLE: Oil- and water-repelling substance

INVENTOR(S): Kirimoto, Kazusuke; Hayashi, Takao

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd.

SOURCE: Ger. Offen., 24 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2247111	A1	19740418	DE 1972-2247111	19720926
DE 2247111	B2	19760102		

PRIORITY APPLN. INFO.: DE 1972-2247111 19720926

AB Agents that imparted good oil- and water-resistance to cotton, polyester, and wool textiles with retention of the textile softness were copolymers (9 used) contg. 1.5-35% haloalkyl vinyl ether and .geq.25% fluoroalkyl (meth) \*\*\*acrylate\*\*\*. Thus, cotton fabric treated with 75:20:50 copolymer of CH<sub>2</sub>:CHCO<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>CnF<sub>2n+1</sub>(I, n = 7,9,11, and 13 in a 4:3:2:1 ratio), vinyl chloride (II) [75-01-4], and 2-chloroethyl vinyl ether [110-75-8] exhibited similar oil, water, and soil-resistance but higher softness values and better hand than cotton fabric treated with a 75:25 I-II copolymer.

E V 9 7 5 4 4 0 2 4 4

L9 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 1974:522709 CAPLUS  
DOCUMENT NUMBER: 81:122709  
TITLE: Oil- and water-repellant material  
INVENTOR(S): Kirimoto, Kazusuke; Hayashi, Takao; Kojima, Hiroaki  
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd.  
SOURCE: Ger. Offen., 33 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2247182	A1	19740425	DE 1972-2247182	19720926
DE 2247182	B2	19750807		
DE 2247182	C3	19760311		

PRIORITY APPLN. INFO.: DE 1972-2247182 19720926  
AB The addn. of polymers prep'd. from C1-18 alkyl acrylates or methacrylates and methylolacrylamide or methylolmethacrylamide to fluoroalkyl \*\*\*acrylate\*\*\* polymer oil-and waterproofing agents reduced the finishing costs while providing good oil and water repellency without any adverse effect on hand. Thus, a polymer prep'd. from 73% CH<sub>2</sub>:CHCO<sub>2</sub>CHCH<sub>2</sub>(CF)<sub>n</sub>CF<sub>3</sub> (a 4:3:2:1 mixt. of monomers with n = 4,6,8, and 10), 25% vinyl chloride, and 2% diacetoneacrylamide was mixed with an equal amt. of a 95:5 butyl \*\*\*acrylate\*\*\* -N-methylolacrylamide polymer [27157-48-8] and mixed with water to form an \*\*\*emulsion\*\*\* contg. 1% polymer. A 35:65 cotton-polyester fabric was padded with the \*\*\*emulsion\*\*\* to provide wet add-on 80% and dried 3 min at 100.deg. and 4 min at 150.deg.. The finished fabric had a soft hand as well as good oil and water repellency.

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